

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331555-940

Luminaire Tested: **S122DIW-S865D435U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331555-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S865D435U940-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 435 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

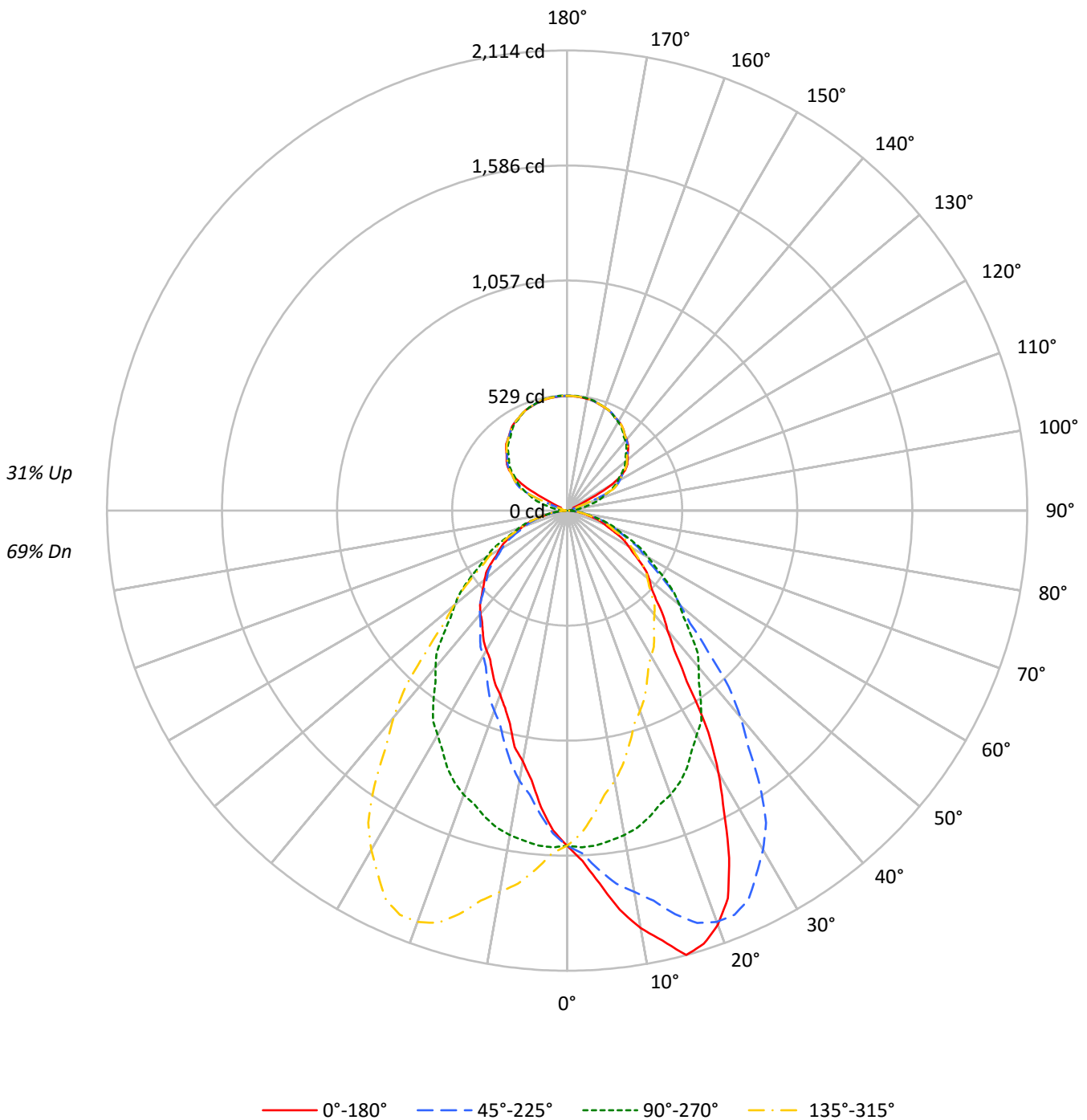
Lumens per Lamp: N/A  
Luminaire Lumens: 4941.5 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69
1	103	98	95	91	97	93	90	87	83	81	79	74	72	71	66	65	63	59
2	94	87	81	76	89	82	77	72	74	70	66	66	63	60	59	56	54	51
3	86	77	70	64	81	73	67	61	66	61	56	59	55	52	53	50	47	44
4	79	69	61	55	75	65	58	53	59	53	49	53	49	45	48	44	41	38
5	73	62	54	48	69	59	51	46	53	47	43	48	43	39	43	39	36	34
6	68	56	48	42	64	53	46	40	48	42	38	44	39	35	39	35	32	30
7	63	51	43	37	59	48	41	36	44	38	34	40	35	31	36	32	29	27
8	59	46	38	33	55	44	37	32	40	34	30	37	32	28	33	29	26	24
9	55	42	35	30	52	41	34	29	37	31	27	34	29	26	31	27	24	22
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	24857	24857	24857	24857
5°	27869	25020	22172	25020
10°	31936	24815	19189	24815
15°	35328	24359	16951	24359
20°	34790	23871	15454	23871
25°	31370	23222	14503	23222
30°	25922	22184	13811	22184
35°	18892	21098	13318	21098
40°	15091	19816	13044	19816
45°	13186	18333	12673	18333
50°	12396	16900	12424	16900
55°	11426	15440	12090	15440
60°	10469	13892	11580	13892
65°	9540	12500	11075	12500
70°	8658	11146	10334	11146
75°	7679	9632	9158	9632
80°	6602	7978	7373	7978
85°	5910	5910	4372	5910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	3.0
10°-20°	426.3	8.6
20°-30°	618.6	12.5
30°-40°	652.8	13.2
40°-50°	578.0	11.7
50°-60°	461.3	9.3
60°-70°	313.5	6.3
70°-80°	160.7	3.3
80°-90°	40.0	0.8
90°-100°	17.6	0.4
100°-110°	64.4	1.3
110°-120°	172.2	3.5
120°-130°	284.3	5.8
130°-140°	302.4	6.1
140°-150°	281.0	5.7
150°-160°	225.9	4.6
160°-170°	145.6	2.9
170°-180°	50.1	1.0
0°-30°	1191.5	24.1
0°-40°	1844.3	37.3
0°-60°	2883.6	58.4
0°-90°	3397.9	68.8
90°-120°	254.2	5.1
90°-150°	1121.9	22.7
90°-180°	1544.0	31.2
0°-180°	4941.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1540	1540	1540	1540	1540	
5°	1720	1544	1368	1544	1720	172
15°	2114	1457	1014	1457	2114	583
25°	1761	1304	814	1304	1761	796
35°	958	1070	676	1070	958	623
45°	578	803	555	803	578	454
55°	406	548	430	548	406	364
65°	250	327	290	327	250	248
75°	123	154	147	154	123	132
85°	32	32	24	32	32	35
90°	10	0	10	0	10	6
95°	16	25	16	25	16	15
105°	29	116	29	116	29	30
115°	31	219	31	219	31	78
125°	326	310	326	310	326	282
135°	396	383	396	383	396	305
145°	452	445	452	445	452	282
155°	490	490	490	490	490	226
165°	515	516	515	516	515	145
175°	525	528	525	528	525	50
180°	527	527	527	527	527	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1610.6	1611.1	1612.0	1604.5	1603.5	1603.5	1596.9	1591.2	1584.6	1575.6	1576.5
5°	1719.5	1726.0	1728.3	1721.3	1710.6	1709.4	1699.3	1682.7	1667.4	1654.9	1646.1
7.5°	1849.4	1852.0	1846.2	1836.8	1828.9	1814.7	1796.0	1777.7	1752.0	1728.5	1710.9
10°	1947.9	1951.4	1941.3	1927.7	1916.5	1899.9	1872.7	1844.9	1811.2	1778.6	1752.6
12.5°	2022.7	2031.4	2018.5	2016.7	1997.4	1974.7	1942.3	1928.2	1880.8	1835.4	1807.5
15°	2113.5	2112.9	2114.2	2102.8	2088.7	2085.1	2050.8	2013.6	1946.7	1920.0	1873.9
17.5°	2087.2	2096.2	2100.4	2100.2	2099.9	2097.7	2086.7	2063.2	2029.6	1986.5	1933.1
20°	2024.8	2036.6	2038.4	2052.0	2059.7	2069.7	2073.9	2067.3	2046.7	2010.5	1964.4
22.5°	1928.2	1931.5	1937.1	1958.3	1975.0	2000.2	2013.3	2035.2	2027.2	2009.6	1971.0
25°	1760.9	1755.0	1775.7	1786.3	1824.8	1865.0	1894.0	1925.9	1954.4	1971.5	1960.2
27.5°	1560.0	1551.0	1582.1	1610.3	1641.6	1685.2	1730.4	1783.7	1828.1	1883.6	1902.6
30°	1390.4	1395.8	1425.4	1455.5	1502.9	1564.4	1615.3	1673.9	1737.2	1799.3	1842.5
32.5°	1207.7	1228.2	1247.0	1293.2	1334.9	1403.5	1478.0	1551.3	1630.2	1700.8	1767.7
35°	958.5	982.2	1008.3	1042.0	1100.5	1168.6	1241.4	1340.2	1447.9	1544.4	1623.6
37.5°	806.8	803.1	818.0	842.3	889.7	944.7	1028.5	1126.1	1252.9	1366.2	1478.0
40°	716.0	713.5	724.2	746.7	782.8	823.0	896.4	982.2	1099.9	1238.4	1371.5
42.5°	653.4	654.9	660.8	676.6	701.4	734.5	789.4	862.5	970.3	1100.6	1243.8
45°	577.5	581.7	588.2	595.8	610.0	637.2	668.0	720.1	805.3	914.2	1055.0
47.5°	522.8	522.9	529.6	536.3	544.7	560.1	585.1	617.9	678.0	766.6	887.7
50°	493.5	489.4	494.1	499.4	508.3	518.9	535.5	566.2	606.5	678.1	779.3
52.5°	457.5	457.6	461.9	463.9	471.8	482.5	497.6	518.9	555.4	611.4	694.6
55°	405.9	408.8	411.3	414.7	421.9	429.5	441.4	455.6	484.0	526.0	587.5
57.5°	357.4	358.3	360.7	367.5	371.9	379.1	390.3	403.1	421.6	452.7	499.0
60°	324.2	324.2	329.0	331.9	337.9	344.9	353.8	366.2	382.8	408.2	445.6
62.5°	294.0	293.5	295.3	300.2	304.7	311.4	320.2	330.7	346.3	369.0	399.7
65°	249.7	248.5	252.1	253.2	258.0	264.5	271.6	282.9	295.2	311.8	339.0
67.5°	207.1	208.5	210.4	212.7	215.3	222.1	226.9	234.8	245.3	259.0	277.5
70°	183.4	183.4	183.4	185.2	188.8	192.3	197.1	203.6	213.6	225.4	242.0
72.5°	156.9	158.8	160.7	159.6	164.2	166.3	171.9	175.6	185.2	192.8	207.4
75°	123.1	123.1	123.1	126.0	127.8	129.6	133.1	136.7	141.4	150.9	158.5
77.5°	91.8	91.6	92.2	92.9	94.8	96.9	98.0	101.2	105.6	109.9	116.5
80°	71.0	72.2	72.8	73.9	73.9	75.2	75.7	79.9	82.8	85.8	90.0
82.5°	54.9	55.1	55.3	55.5	56.0	56.7	58.2	59.6	60.5	63.0	66.3
85°	31.9	31.4	31.4	32.5	31.9	31.9	33.2	34.3	34.3	34.9	36.6
87.5°	14.4	14.4	14.8	14.3	14.3	14.6	14.5	14.0	14.4	14.8	15.2
90°	10.3	10.2	10.0	9.8	9.6	9.3	8.9	8.5	8.0	7.6	7.0
92.5°	10.3	10.2	10.1	10.0	9.9	9.7	9.5	9.3	9.1	8.8	8.5
95°	16.4	16.5	16.6	16.7	16.8	16.6	16.1	15.7	15.2	14.9	14.3
97.5°	21.8	21.8	21.7	21.6	21.5	21.2	21.0	20.6	20.2	19.9	18.5
100°	25.5	25.3	25.2	25.1	24.9	24.4	23.7	23.1	22.4	21.8	20.2
102.5°	27.4	27.1	26.9	26.7	26.4	25.9	25.0	24.1	23.2	22.3	34.4
105°	29.0	28.6	28.3	27.9	27.6	27.0	26.0	25.1	24.2	23.3	46.4
107.5°	29.8	29.4	29.2	28.8	28.4	28.7	29.7	30.7	31.6	32.5	60.3
110°	30.1	29.8	29.4	29.1	28.7	32.8	41.3	49.8	58.2	66.7	91.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	30.4	30.1	29.9	29.6	29.3	44.7	75.5	106.5	137.3	168.3	174.2
115°	31.2	37.4	43.4	49.6	55.6	78.3	117.5	156.8	195.9	235.1	233.0
117.5°	127.6	147.7	167.6	187.7	207.8	222.5	232.0	241.5	251.0	260.5	259.0
120°	232.5	243.9	255.4	266.8	278.2	283.5	282.4	281.4	280.4	279.4	277.9
122.5°	290.1	292.3	294.5	296.8	299.0	299.8	299.2	298.5	298.0	297.4	295.7
125°	325.8	325.7	325.4	325.1	324.9	324.4	323.9	323.2	322.6	322.1	320.5
127.5°	348.4	348.4	348.3	348.3	348.2	347.8	346.9	346.1	345.2	344.3	343.1
130°	362.5	362.6	362.7	362.7	362.8	362.4	361.4	360.5	359.5	358.6	357.8
132.5°	376.2	376.3	376.3	376.4	376.5	376.1	375.3	374.6	373.8	373.0	372.0
135°	396.0	396.2	396.4	396.5	396.6	396.4	395.5	394.7	393.8	393.0	392.2
137.5°	414.0	414.4	414.6	414.9	415.2	414.9	414.1	413.3	412.4	411.6	410.7
140°	425.3	425.8	426.1	426.6	427.0	426.9	426.1	425.3	424.5	423.8	422.8
142.5°	436.3	436.8	437.2	437.6	438.0	437.9	437.2	436.5	435.8	435.1	434.0
145°	451.7	452.1	452.5	452.9	453.3	453.3	452.6	452.1	451.5	450.8	449.4
147.5°	465.1	465.5	465.8	466.2	466.5	466.5	466.1	465.7	465.2	464.8	463.3
150°	473.4	473.8	474.2	474.7	475.1	475.0	474.5	474.0	473.5	473.0	471.6
152.5°	480.4	480.9	481.5	482.1	482.6	482.7	482.1	481.6	481.1	480.6	479.3
155°	490.2	490.8	491.5	492.1	492.8	492.9	492.4	492.0	491.4	490.9	489.9
157.5°	499.1	499.7	500.3	501.1	501.7	501.8	501.1	500.6	500.0	499.4	498.7
160°	504.3	504.8	505.4	506.0	506.6	506.7	506.1	505.6	505.2	504.6	504.1
162.5°	508.5	509.3	510.0	510.7	511.4	511.5	511.0	510.3	509.8	509.2	508.7
165°	514.9	515.5	516.1	516.7	517.3	517.3	516.7	516.1	515.5	514.9	514.7
167.5°	519.0	519.7	520.5	521.2	522.0	522.1	521.5	520.9	520.3	519.7	519.5
170°	521.4	522.2	522.9	523.7	524.4	524.5	524.0	523.3	522.7	522.2	522.0
172.5°	523.3	524.0	524.8	525.5	526.3	526.4	525.8	525.1	524.6	524.0	523.8
175°	524.9	525.7	526.6	527.4	528.2	528.3	527.7	527.2	526.6	525.9	525.8
177.5°	525.8	526.4	527.0	527.6	528.2	528.3	527.8	527.4	526.9	526.4	526.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1579.8	1576.0	1573.7	1565.1	1557.6	1550.0	1547.7	1548.5	1538.2	1528.2	1523.9
5°	1641.4	1629.5	1618.3	1602.3	1583.4	1562.6	1552.0	1543.7	1523.0	1500.6	1487.6
7.5°	1696.5	1679.5	1658.0	1627.9	1600.3	1567.7	1547.0	1528.7	1498.4	1466.7	1447.2
10°	1730.1	1707.0	1679.2	1642.5	1608.8	1569.1	1541.3	1513.6	1478.0	1440.2	1416.5
12.5°	1759.0	1727.9	1700.5	1653.4	1613.6	1564.0	1531.0	1491.7	1454.4	1409.4	1386.3
15°	1827.7	1770.3	1718.2	1665.0	1615.9	1546.7	1510.0	1457.3	1408.2	1352.6	1326.0
17.5°	1880.9	1816.4	1734.4	1666.7	1609.4	1532.8	1478.9	1415.8	1357.7	1294.1	1257.9
20°	1911.2	1837.2	1749.0	1668.6	1599.9	1512.3	1453.8	1389.3	1321.2	1249.6	1210.6
22.5°	1929.1	1851.4	1764.2	1661.4	1581.0	1495.8	1422.1	1351.4	1282.5	1205.1	1164.2
25°	1934.8	1863.9	1771.6	1655.6	1557.4	1460.9	1372.2	1303.5	1220.0	1147.9	1088.2
27.5°	1906.7	1855.7	1767.0	1644.4	1530.0	1417.2	1318.3	1240.5	1152.5	1074.2	1014.1
30°	1872.1	1842.5	1756.1	1633.1	1508.2	1387.0	1278.1	1189.9	1102.3	1023.1	961.5
32.5°	1818.6	1812.2	1736.3	1616.9	1485.1	1348.6	1235.9	1146.8	1049.8	971.9	913.2
35°	1713.5	1742.0	1694.0	1581.0	1441.4	1294.1	1172.2	1070.4	969.8	895.2	840.2
37.5°	1572.7	1643.2	1630.7	1528.3	1382.4	1234.7	1100.1	993.7	897.9	822.6	768.6
40°	1475.7	1565.6	1578.6	1488.1	1340.8	1188.7	1046.2	940.2	846.7	778.1	723.6
42.5°	1371.5	1476.6	1512.3	1439.8	1295.3	1140.4	997.8	888.1	795.6	728.9	680.6
45°	1197.0	1336.1	1400.5	1359.1	1219.5	1060.9	914.2	802.9	718.9	656.2	618.9
47.5°	1033.8	1185.7	1272.5	1257.8	1135.1	978.0	832.9	726.2	644.4	594.4	561.1
50°	918.3	1074.5	1179.2	1184.0	1074.5	918.9	773.4	672.8	597.6	550.9	523.6
52.5°	818.0	967.1	1081.3	1106.3	1006.8	857.4	719.9	619.7	553.6	510.6	486.2
55°	687.0	813.0	939.6	985.8	905.9	763.8	636.7	548.5	486.3	456.8	435.5
57.5°	571.1	676.2	793.1	844.1	794.9	673.3	554.0	477.5	427.0	401.2	384.9
60°	510.1	592.9	697.1	758.0	715.3	607.1	502.9	430.2	388.8	365.7	350.3
62.5°	453.3	526.6	614.7	670.4	647.2	545.1	451.8	387.5	351.8	330.2	319.1
65°	374.0	431.9	500.0	551.4	536.1	458.5	382.3	327.2	298.8	281.6	272.8
67.5°	307.9	349.8	397.0	442.1	429.7	374.8	313.4	270.6	249.5	234.7	229.3
70°	266.3	298.2	340.2	376.3	366.2	321.3	272.8	236.1	217.8	205.4	200.0
72.5°	226.5	252.8	284.8	314.3	307.6	270.2	229.7	202.0	187.9	176.5	172.1
75°	171.0	191.1	210.6	230.2	228.4	199.4	175.8	154.4	143.2	134.3	132.5
77.5°	126.3	137.5	150.8	162.4	159.2	142.6	124.0	111.8	103.5	97.6	96.7
80°	96.5	103.0	112.4	120.7	116.5	109.5	94.7	85.8	79.9	73.9	71.6
82.5°	69.9	76.4	82.1	86.6	83.5	76.8	67.7	61.6	58.1	54.0	53.1
85°	36.6	40.2	42.6	43.8	42.6	38.4	34.3	31.9	29.0	27.2	26.7
87.5°	15.4	15.3	15.2	16.0	14.4	14.2	12.1	10.5	10.2	9.9	9.2
90°	6.2	5.6	4.9	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	8.2	7.8	7.5	7.4	7.4	7.5	7.6	7.7	7.6	7.5	7.4
95°	13.6	13.1	12.5	13.6	16.4	19.2	21.9	24.8	21.9	19.2	16.4
97.5°	17.1	15.8	14.4	17.7	25.5	33.4	41.3	49.1	41.3	33.4	25.5
100°	18.8	17.4	16.0	21.0	32.6	44.2	55.8	67.5	55.8	44.2	32.6
102.5°	46.5	58.5	70.5	77.8	80.3	82.7	85.2	87.6	85.2	82.7	80.3
105°	69.5	92.6	115.7	126.0	123.5	120.9	118.4	115.8	118.4	120.9	123.5
107.5°	88.0	115.7	143.5	156.3	154.3	152.2	150.2	148.1	150.2	152.2	154.3
110°	115.7	140.1	164.6	175.9	174.2	172.4	170.6	168.8	170.6	172.4	174.2





TEST NUMBER: P331555-940

CATALOG NUMBER: S122DIW-S865D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	180.3	186.4	192.4	194.7	193.1	191.5	189.9	188.3	189.9	191.5	193.1
115°	231.0	228.8	226.7	224.9	223.5	222.0	220.6	219.2	220.6	222.0	223.5
117.5°	257.5	256.1	254.7	253.1	251.5	249.9	248.3	246.6	248.3	249.9	251.5
120°	276.3	274.8	273.3	271.9	270.6	269.3	268.0	266.8	268.0	269.3	270.6
122.5°	294.0	292.4	290.7	289.2	287.8	286.5	285.2	283.8	285.2	286.5	287.8
125°	318.9	317.3	315.6	314.2	313.2	312.1	310.9	309.9	310.9	312.1	313.2
127.5°	341.9	340.7	339.5	338.3	337.1	335.8	334.7	333.4	334.7	335.8	337.1
130°	356.8	355.9	354.9	353.7	352.4	351.1	349.7	348.4	349.7	351.1	352.4
132.5°	371.1	370.1	369.3	368.2	367.0	365.9	364.7	363.6	364.7	365.9	367.0
135°	391.5	390.7	389.9	388.9	387.4	386.1	384.8	383.4	384.8	386.1	387.4
137.5°	409.9	409.0	408.1	407.2	406.4	405.4	404.4	403.5	404.4	405.4	406.4
140°	422.0	421.1	420.1	419.3	418.6	417.9	417.2	416.6	417.2	417.9	418.6
142.5°	432.9	431.9	430.9	430.0	429.4	428.7	428.2	427.6	428.2	428.7	429.4
145°	448.0	446.6	445.1	444.4	444.5	444.6	444.7	444.8	444.7	444.6	444.5
147.5°	461.9	460.5	459.1	458.5	458.9	459.1	459.5	459.8	459.5	459.1	458.9
150°	470.3	469.0	467.5	467.2	467.8	468.3	469.0	469.6	469.0	468.3	467.8
152.5°	478.0	476.7	475.5	475.1	475.8	476.4	477.2	477.8	477.2	476.4	475.8
155°	488.8	487.9	486.9	486.7	487.5	488.2	489.0	489.7	489.0	488.2	487.5
157.5°	498.0	497.3	496.6	496.6	497.2	497.8	498.5	499.1	498.5	497.8	497.2
160°	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6	504.1	503.6	503.1
162.5°	508.3	507.8	507.5	507.5	508.0	508.5	509.0	509.5	509.0	508.5	508.0
165°	514.4	514.2	513.9	514.0	514.5	515.1	515.6	516.0	515.6	515.1	514.5
167.5°	519.2	519.0	518.8	518.9	519.4	520.0	520.4	520.9	520.4	520.0	519.4
170°	521.8	521.7	521.5	521.7	522.2	522.6	523.2	523.7	523.2	522.6	522.2
172.5°	523.6	523.4	523.3	523.4	524.0	524.5	525.0	525.5	525.0	524.5	524.0
175°	525.7	525.5	525.3	525.5	526.1	526.6	527.3	527.9	527.3	526.6	526.1
177.5°	526.3	526.2	526.1	526.4	526.8	527.3	527.8	528.2	527.8	527.3	526.8
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331555-940

CATALOG NUMBER: S122DIW-S865D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1519.2	1516.4	1506.5	1501.3	1492.7	1484.7	1479.4	1481.8	1483.7	1482.7	1481.4
5°	1475.7	1464.5	1447.2	1432.4	1421.8	1402.3	1394.0	1389.9	1386.3	1382.2	1378.0
7.5°	1423.9	1406.1	1381.4	1360.4	1340.5	1316.3	1302.4	1294.1	1285.7	1276.3	1268.0
10°	1387.0	1362.1	1336.1	1306.4	1282.8	1260.9	1241.4	1228.3	1216.6	1205.2	1197.0
12.5°	1348.1	1319.5	1287.3	1246.8	1220.8	1189.5	1186.4	1163.5	1145.0	1138.1	1128.4
15°	1286.4	1246.1	1205.2	1157.4	1136.7	1108.2	1090.5	1072.7	1056.8	1045.5	1042.6
17.5°	1216.2	1164.1	1123.5	1089.0	1055.1	1026.0	1009.7	995.5	982.3	967.3	965.3
20°	1162.7	1117.7	1073.4	1043.1	1008.3	978.7	958.5	944.3	933.1	924.3	916.5
22.5°	1112.1	1062.8	1022.2	989.2	954.8	930.9	915.0	901.3	891.9	882.1	874.9
25°	1030.7	992.3	947.9	910.6	882.2	866.8	853.8	842.0	836.1	829.6	821.3
27.5°	959.6	916.9	875.4	846.5	821.5	807.9	798.7	790.6	785.1	781.2	776.5
30°	909.5	866.2	833.7	805.3	784.6	771.0	765.1	760.4	753.9	751.4	749.1
32.5°	861.1	822.2	794.4	769.8	750.0	741.2	735.8	731.5	726.4	724.0	719.3
35°	792.9	760.4	733.1	719.5	703.6	695.8	691.7	685.8	681.0	678.7	678.1
37.5°	728.6	700.3	682.4	664.9	658.2	653.4	647.8	643.7	642.3	641.9	641.4
40°	687.0	663.9	647.9	633.7	630.7	623.7	618.9	615.4	615.4	616.0	615.4
42.5°	649.1	628.4	614.3	602.0	598.5	594.3	589.6	589.3	590.3	592.3	590.3
45°	591.7	576.9	566.9	560.9	554.4	550.3	549.7	551.4	552.1	552.7	554.4
47.5°	539.0	529.1	520.0	513.4	510.6	509.9	509.2	512.3	515.1	516.2	518.9
50°	507.7	496.4	488.7	484.6	482.2	481.1	482.2	485.8	488.1	491.1	492.8
52.5°	472.6	464.7	459.4	456.2	455.2	455.9	456.2	460.2	464.0	465.0	465.9
55°	424.3	418.3	417.1	411.8	414.2	413.6	416.5	418.9	422.5	426.1	426.6
57.5°	375.9	371.2	368.0	368.5	369.3	371.8	374.3	378.4	382.3	386.0	386.4
60°	343.8	341.4	339.7	339.7	340.8	344.4	347.3	351.4	353.8	356.2	357.9
62.5°	314.4	312.1	310.3	311.2	314.3	316.5	319.9	322.1	324.5	326.8	327.7
65°	268.0	266.9	268.7	269.8	270.4	273.4	277.5	279.3	281.6	282.9	287.0
67.5°	225.3	225.5	225.3	226.9	230.4	231.1	235.1	239.2	239.6	241.9	244.6
70°	196.4	197.6	198.9	200.0	203.0	204.1	207.1	208.8	211.2	213.0	214.8
72.5°	170.0	170.1	171.4	171.1	173.6	176.2	178.7	180.5	182.8	185.1	186.8
75°	130.7	130.7	132.0	132.5	135.5	138.5	137.9	139.0	141.4	143.7	145.0
77.5°	95.5	94.2	95.5	96.1	97.0	99.5	100.0	101.7	104.3	103.5	104.9
80°	72.8	71.0	72.8	73.4	73.4	76.3	76.3	77.5	79.3	77.5	79.3
82.5°	52.0	51.1	52.4	52.5	53.5	53.6	54.6	54.8	56.5	55.7	56.5
85°	26.0	25.4	26.0	25.4	26.0	26.7	26.7	26.0	26.0	27.2	25.4
87.5°	8.8	8.6	8.2	8.4	8.0	7.7	7.3	7.4	7.5	6.6	6.7
90°	4.1	4.9	5.6	6.2	7.0	7.6	8.0	8.5	8.9	9.3	9.6
92.5°	7.4	7.5	7.8	8.2	8.5	8.8	9.1	9.3	9.5	9.7	9.9
95°	13.6	12.5	13.1	13.6	14.3	14.9	15.2	15.7	16.1	16.6	16.8
97.5°	17.7	14.4	15.8	17.1	18.5	19.9	20.2	20.6	21.0	21.2	21.5
100°	21.0	16.0	17.4	18.8	20.2	21.8	22.4	23.1	23.7	24.4	24.9
102.5°	77.8	70.5	58.5	46.5	34.4	22.3	23.2	24.1	25.0	25.9	26.4
105°	126.0	115.7	92.6	69.5	46.4	23.3	24.2	25.1	26.0	27.0	27.6
107.5°	156.3	143.5	115.7	88.0	60.3	32.5	31.6	30.7	29.7	28.7	28.4
110°	175.9	164.6	140.1	115.7	91.1	66.7	58.2	49.8	41.3	32.8	28.7



TEST NUMBER: P331555-940

CATALOG NUMBER: S122DIW-S865D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	194.7	192.4	186.4	180.3	174.2	168.3	137.3	106.5	75.5	44.7	29.3
115°	224.9	226.7	228.8	231.0	233.0	235.1	195.9	156.8	117.5	78.3	55.6
117.5°	253.1	254.7	256.1	257.5	259.0	260.5	251.0	241.5	232.0	222.5	207.8
120°	271.9	273.3	274.8	276.3	277.9	279.4	280.4	281.4	282.4	283.5	278.2
122.5°	289.2	290.7	292.4	294.0	295.7	297.4	298.0	298.5	299.2	299.8	299.0
125°	314.2	315.6	317.3	318.9	320.5	322.1	322.6	323.2	323.9	324.4	324.9
127.5°	338.3	339.5	340.7	341.9	343.1	344.3	345.2	346.1	346.9	347.8	348.2
130°	353.7	354.9	355.9	356.8	357.8	358.6	359.5	360.5	361.4	362.4	362.8
132.5°	368.2	369.3	370.1	371.1	372.0	373.0	373.8	374.6	375.3	376.1	376.5
135°	388.9	389.9	390.7	391.5	392.2	393.0	393.8	394.7	395.5	396.4	396.6
137.5°	407.2	408.1	409.0	409.9	410.7	411.6	412.4	413.3	414.1	414.9	415.2
140°	419.3	420.1	421.1	422.0	422.8	423.8	424.5	425.3	426.1	426.9	427.0
142.5°	430.0	430.9	431.9	432.9	434.0	435.1	435.8	436.5	437.2	437.9	438.0
145°	444.4	445.1	446.6	448.0	449.4	450.8	451.5	452.1	452.6	453.3	453.3
147.5°	458.5	459.1	460.5	461.9	463.3	464.8	465.2	465.7	466.1	466.5	466.5
150°	467.2	467.5	469.0	470.3	471.6	473.0	473.5	474.0	474.5	475.0	475.1
152.5°	475.1	475.5	476.7	478.0	479.3	480.6	481.1	481.6	482.1	482.7	482.6
155°	486.7	486.9	487.9	488.8	489.9	490.9	491.4	492.0	492.4	492.9	492.8
157.5°	496.6	496.6	497.3	498.0	498.7	499.4	500.0	500.6	501.1	501.8	501.7
160°	502.6	502.6	503.1	503.6	504.1	504.6	505.2	505.6	506.1	506.7	506.6
162.5°	507.5	507.5	507.8	508.3	508.7	509.2	509.8	510.3	511.0	511.5	511.4
165°	514.0	513.9	514.2	514.4	514.7	514.9	515.5	516.1	516.7	517.3	517.3
167.5°	518.9	518.8	519.0	519.2	519.5	519.7	520.3	520.9	521.5	522.1	522.0
170°	521.7	521.5	521.7	521.8	522.0	522.2	522.7	523.3	524.0	524.5	524.4
172.5°	523.4	523.3	523.4	523.6	523.8	524.0	524.6	525.1	525.8	526.4	526.3
175°	525.5	525.3	525.5	525.7	525.8	525.9	526.6	527.2	527.7	528.3	528.2
177.5°	526.4	526.1	526.2	526.3	526.4	526.4	526.9	527.4	527.8	528.3	528.2
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331555-940

CATALOG NUMBER: S122DIW-S865D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1476.6	1475.7	1475.7	1471.4	1475.7	1475.7	1476.6	1481.4	1482.7	1483.7	1481.8
5°	1369.8	1368.0	1365.0	1368.0	1365.0	1368.0	1369.8	1378.0	1382.2	1386.3	1389.9
7.5°	1264.1	1257.0	1255.9	1248.9	1255.9	1257.0	1264.1	1268.0	1276.3	1285.7	1294.1
10°	1187.0	1182.2	1181.6	1170.4	1181.6	1182.2	1187.0	1197.0	1205.2	1216.6	1228.3
12.5°	1128.3	1116.9	1119.1	1112.6	1119.1	1116.9	1128.3	1128.4	1138.1	1145.0	1163.5
15°	1026.6	1026.6	1024.2	1014.1	1024.2	1026.6	1026.6	1042.6	1045.5	1056.8	1072.7
17.5°	953.6	952.3	946.7	949.6	946.7	952.3	953.6	965.3	967.3	982.3	995.5
20°	910.0	906.5	899.4	899.4	899.4	906.5	910.0	916.5	924.3	933.1	944.3
22.5°	868.9	868.6	861.0	863.4	861.0	868.6	868.9	874.9	882.1	891.9	901.3
25°	820.6	815.9	812.4	814.1	812.4	815.9	820.6	821.3	829.6	836.1	842.0
27.5°	775.0	772.4	772.1	767.3	772.1	772.4	775.0	776.5	781.2	785.1	790.6
30°	748.5	742.6	743.8	740.8	743.8	742.6	748.5	749.1	751.4	753.9	760.4
32.5°	718.2	716.0	714.9	712.4	714.9	716.0	718.2	719.3	724.0	726.4	731.5
35°	676.9	677.5	674.5	675.7	674.5	677.5	676.9	678.1	678.7	681.0	685.8
37.5°	640.8	642.7	641.3	641.7	641.3	642.7	640.8	641.4	641.9	642.3	643.7
40°	617.2	617.2	617.2	618.9	617.2	617.2	617.2	615.4	616.0	615.4	615.4
42.5°	594.4	593.4	592.5	592.4	592.5	593.4	594.4	590.3	592.3	590.3	589.3
45°	555.6	557.4	557.9	555.0	557.9	557.4	555.6	554.4	552.7	552.1	551.4
47.5°	520.5	520.7	520.5	523.1	520.5	520.7	520.5	518.9	516.2	515.1	512.3
50°	495.9	494.6	495.9	494.6	495.9	494.6	495.9	492.8	491.1	488.1	485.8
52.5°	469.8	470.0	469.3	469.1	469.3	470.0	469.8	465.9	465.0	464.0	460.2
55°	429.0	430.2	429.5	429.5	429.5	430.2	429.0	426.6	426.1	422.5	418.9
57.5°	386.7	387.8	388.6	386.0	388.6	387.8	386.7	386.4	386.0	382.3	378.4
60°	357.4	360.3	359.7	358.6	359.7	360.3	357.4	357.9	356.2	353.8	351.4
62.5°	330.4	331.4	331.4	331.1	331.4	331.4	330.4	327.7	326.8	324.5	322.1
65°	288.7	289.9	288.1	289.9	288.1	289.9	288.7	287.0	282.9	281.6	279.3
67.5°	243.9	244.2	245.6	246.4	245.6	244.2	243.9	244.6	241.9	239.6	239.2
70°	216.0	215.3	217.1	218.9	217.1	215.3	216.0	214.8	213.0	211.2	208.8
72.5°	186.6	187.9	187.3	188.6	187.3	187.9	186.6	186.8	185.1	182.8	180.5
75°	143.7	145.5	145.0	146.8	145.0	145.5	143.7	145.0	143.7	141.4	139.0
77.5°	103.9	104.2	103.9	104.9	103.9	104.2	103.9	104.9	103.5	104.3	101.7
80°	79.3	78.1	77.0	79.3	77.0	78.1	79.3	79.3	77.5	79.3	77.5
82.5°	55.1	55.8	54.7	54.7	54.7	55.8	55.1	56.5	55.7	56.5	54.8
85°	25.4	24.9	23.6	23.6	23.6	24.9	25.4	25.4	27.2	26.0	26.0
87.5°	6.7	6.2	6.2	5.9	6.2	6.2	6.7	6.7	6.6	7.5	7.4
90°	9.8	10.0	10.2	10.3	10.2	10.0	9.8	9.6	9.3	8.9	8.5
92.5°	10.0	10.1	10.2	10.3	10.2	10.1	10.0	9.9	9.7	9.5	9.3
95°	16.7	16.6	16.5	16.4	16.5	16.6	16.7	16.8	16.6	16.1	15.7
97.5°	21.6	21.7	21.8	21.8	21.8	21.7	21.6	21.5	21.2	21.0	20.6
100°	25.1	25.2	25.3	25.5	25.3	25.2	25.1	24.9	24.4	23.7	23.1
102.5°	26.7	26.9	27.1	27.4	27.1	26.9	26.7	26.4	25.9	25.0	24.1
105°	27.9	28.3	28.6	29.0	28.6	28.3	27.9	27.6	27.0	26.0	25.1
107.5°	28.8	29.2	29.4	29.8	29.4	29.2	28.8	28.4	28.7	29.7	30.7
110°	29.1	29.4	29.8	30.1	29.8	29.4	29.1	28.7	32.8	41.3	49.8



TEST NUMBER: P331555-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	29.6	29.9	30.1	30.4	30.1	29.9	29.6	29.3	44.7	75.5	106.5
115°	49.6	43.4	37.4	31.2	37.4	43.4	49.6	55.6	78.3	117.5	156.8
117.5°	187.7	167.6	147.7	127.6	147.7	167.6	187.7	207.8	222.5	232.0	241.5
120°	266.8	255.4	243.9	232.5	243.9	255.4	266.8	278.2	283.5	282.4	281.4
122.5°	296.8	294.5	292.3	290.1	292.3	294.5	296.8	299.0	299.8	299.2	298.5
125°	325.1	325.4	325.7	325.8	325.7	325.4	325.1	324.9	324.4	323.9	323.2
127.5°	348.3	348.3	348.4	348.4	348.4	348.3	348.3	348.2	347.8	346.9	346.1
130°	362.7	362.7	362.6	362.5	362.6	362.7	362.7	362.8	362.4	361.4	360.5
132.5°	376.4	376.3	376.3	376.2	376.3	376.3	376.4	376.5	376.1	375.3	374.6
135°	396.5	396.4	396.2	396.0	396.2	396.4	396.5	396.6	396.4	395.5	394.7
137.5°	414.9	414.6	414.4	414.0	414.4	414.6	414.9	415.2	414.9	414.1	413.3
140°	426.6	426.1	425.8	425.3	425.8	426.1	426.6	427.0	426.9	426.1	425.3
142.5°	437.6	437.2	436.8	436.3	436.8	437.2	437.6	438.0	437.9	437.2	436.5
145°	452.9	452.5	452.1	451.7	452.1	452.5	452.9	453.3	453.3	452.6	452.1
147.5°	466.2	465.8	465.5	465.1	465.5	465.8	466.2	466.5	466.5	466.1	465.7
150°	474.7	474.2	473.8	473.4	473.8	474.2	474.7	475.1	475.0	474.5	474.0
152.5°	482.1	481.5	480.9	480.4	480.9	481.5	482.1	482.6	482.7	482.1	481.6
155°	492.1	491.5	490.8	490.2	490.8	491.5	492.1	492.8	492.9	492.4	492.0
157.5°	501.1	500.3	499.7	499.1	499.7	500.3	501.1	501.7	501.8	501.1	500.6
160°	506.0	505.4	504.8	504.3	504.8	505.4	506.0	506.6	506.7	506.1	505.6
162.5°	510.7	510.0	509.3	508.5	509.3	510.0	510.7	511.4	511.5	511.0	510.3
165°	516.7	516.1	515.5	514.9	515.5	516.1	516.7	517.3	517.3	516.7	516.1
167.5°	521.2	520.5	519.7	519.0	519.7	520.5	521.2	522.0	522.1	521.5	520.9
170°	523.7	522.9	522.2	521.4	522.2	522.9	523.7	524.4	524.5	524.0	523.3
172.5°	525.5	524.8	524.0	523.3	524.0	524.8	525.5	526.3	526.4	525.8	525.1
175°	527.4	526.6	525.7	524.9	525.7	526.6	527.4	528.2	528.3	527.7	527.2
177.5°	527.6	527.0	526.4	525.8	526.4	527.0	527.6	528.2	528.3	527.8	527.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331555-940

CATALOG NUMBER: S122DIW-S865D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1479.4	1484.7	1492.7	1501.3	1506.5	1516.4	1519.2	1523.9	1528.2	1538.2	1548.5
5°	1394.0	1402.3	1421.8	1432.4	1447.2	1464.5	1475.7	1487.6	1500.6	1523.0	1543.7
7.5°	1302.4	1316.3	1340.5	1360.4	1381.4	1406.1	1423.9	1447.2	1466.7	1498.4	1528.7
10°	1241.4	1260.9	1282.8	1306.4	1336.1	1362.1	1387.0	1416.5	1440.2	1478.0	1513.6
12.5°	1186.4	1189.5	1220.8	1246.8	1287.3	1319.5	1348.1	1386.3	1409.4	1454.4	1491.7
15°	1090.5	1108.2	1136.7	1157.4	1205.2	1246.1	1286.4	1326.0	1352.6	1408.2	1457.3
17.5°	1009.7	1026.0	1055.1	1089.0	1123.5	1164.1	1216.2	1257.9	1294.1	1357.7	1415.8
20°	958.5	978.7	1008.3	1043.1	1073.4	1117.7	1162.7	1210.6	1249.6	1321.2	1389.3
22.5°	915.0	930.9	954.8	989.2	1022.2	1062.8	1112.1	1164.2	1205.1	1282.5	1351.4
25°	853.8	866.8	882.2	910.6	947.9	992.3	1030.7	1088.2	1147.9	1220.0	1303.5
27.5°	798.7	807.9	821.5	846.5	875.4	916.9	959.6	1014.1	1074.2	1152.5	1240.5
30°	765.1	771.0	784.6	805.3	833.7	866.2	909.5	961.5	1023.1	1102.3	1189.9
32.5°	735.8	741.2	750.0	769.8	794.4	822.2	861.1	913.2	971.9	1049.8	1146.8
35°	691.7	695.8	703.6	719.5	733.1	760.4	792.9	840.2	895.2	969.8	1070.4
37.5°	647.8	653.4	658.2	664.9	682.4	700.3	728.6	768.6	822.6	897.9	993.7
40°	618.9	623.7	630.7	633.7	647.9	663.9	687.0	723.6	778.1	846.7	940.2
42.5°	589.6	594.3	598.5	602.0	614.3	628.4	649.1	680.6	728.9	795.6	888.1
45°	549.7	550.3	554.4	560.9	566.9	576.9	591.7	618.9	656.2	718.9	802.9
47.5°	509.2	509.9	510.6	513.4	520.0	529.1	539.0	561.1	594.4	644.4	726.2
50°	482.2	481.1	482.2	484.6	488.7	496.4	507.7	523.6	550.9	597.6	672.8
52.5°	456.2	455.9	455.2	456.2	459.4	464.7	472.6	486.2	510.6	553.6	619.7
55°	416.5	413.6	414.2	411.8	417.1	418.3	424.3	435.5	456.8	486.3	548.5
57.5°	374.3	371.8	369.3	368.5	368.0	371.2	375.9	384.9	401.2	427.0	477.5
60°	347.3	344.4	340.8	339.7	339.7	341.4	343.8	350.3	365.7	388.8	430.2
62.5°	319.9	316.5	314.3	311.2	310.3	312.1	314.4	319.1	330.2	351.8	387.5
65°	277.5	273.4	270.4	269.8	268.7	266.9	268.0	272.8	281.6	298.8	327.2
67.5°	235.1	231.1	230.4	226.9	225.3	225.5	225.3	229.3	234.7	249.5	270.6
70°	207.1	204.1	203.0	200.0	198.9	197.6	196.4	200.0	205.4	217.8	236.1
72.5°	178.7	176.2	173.6	171.1	171.4	170.1	170.0	172.1	176.5	187.9	202.0
75°	137.9	138.5	135.5	132.5	132.0	130.7	130.7	132.5	134.3	143.2	154.4
77.5°	100.0	99.5	97.0	96.1	95.5	94.2	95.5	96.7	97.6	103.5	111.8
80°	76.3	76.3	73.4	73.4	72.8	71.0	72.8	71.6	73.9	79.9	85.8
82.5°	54.6	53.6	53.5	52.5	52.4	51.1	52.0	53.1	54.0	58.1	61.6
85°	26.7	26.7	26.0	25.4	26.0	25.4	26.0	26.7	27.2	29.0	31.9
87.5°	7.3	7.7	8.0	8.4	8.2	8.6	8.8	9.2	9.9	10.2	10.5
90°	8.0	7.6	7.0	6.2	5.6	4.9	4.1	3.2	2.2	1.3	0.4
92.5°	9.1	8.8	8.5	8.2	7.8	7.5	7.4	7.4	7.5	7.6	7.7
95°	15.2	14.9	14.3	13.6	13.1	12.5	13.6	16.4	19.2	21.9	24.8
97.5°	20.2	19.9	18.5	17.1	15.8	14.4	17.7	25.5	33.4	41.3	49.1
100°	22.4	21.8	20.2	18.8	17.4	16.0	21.0	32.6	44.2	55.8	67.5
102.5°	23.2	22.3	34.4	46.5	58.5	70.5	77.8	80.3	82.7	85.2	87.6
105°	24.2	23.3	46.4	69.5	92.6	115.7	126.0	123.5	120.9	118.4	115.8
107.5°	31.6	32.5	60.3	88.0	115.7	143.5	156.3	154.3	152.2	150.2	148.1
110°	58.2	66.7	91.1	115.7	140.1	164.6	175.9	174.2	172.4	170.6	168.8



TEST NUMBER: P331555-940

CATALOG NUMBER: S122DIW-S865D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	137.3	168.3	174.2	180.3	186.4	192.4	194.7	193.1	191.5	189.9	188.3
115°	195.9	235.1	233.0	231.0	228.8	226.7	224.9	223.5	222.0	220.6	219.2
117.5°	251.0	260.5	259.0	257.5	256.1	254.7	253.1	251.5	249.9	248.3	246.6
120°	280.4	279.4	277.9	276.3	274.8	273.3	271.9	270.6	269.3	268.0	266.8
122.5°	298.0	297.4	295.7	294.0	292.4	290.7	289.2	287.8	286.5	285.2	283.8
125°	322.6	322.1	320.5	318.9	317.3	315.6	314.2	313.2	312.1	310.9	309.9
127.5°	345.2	344.3	343.1	341.9	340.7	339.5	338.3	337.1	335.8	334.7	333.4
130°	359.5	358.6	357.8	356.8	355.9	354.9	353.7	352.4	351.1	349.7	348.4
132.5°	373.8	373.0	372.0	371.1	370.1	369.3	368.2	367.0	365.9	364.7	363.6
135°	393.8	393.0	392.2	391.5	390.7	389.9	388.9	387.4	386.1	384.8	383.4
137.5°	412.4	411.6	410.7	409.9	409.0	408.1	407.2	406.4	405.4	404.4	403.5
140°	424.5	423.8	422.8	422.0	421.1	420.1	419.3	418.6	417.9	417.2	416.6
142.5°	435.8	435.1	434.0	432.9	431.9	430.9	430.0	429.4	428.7	428.2	427.6
145°	451.5	450.8	449.4	448.0	446.6	445.1	444.4	444.5	444.6	444.7	444.8
147.5°	465.2	464.8	463.3	461.9	460.5	459.1	458.5	458.9	459.1	459.5	459.8
150°	473.5	473.0	471.6	470.3	469.0	467.5	467.2	467.8	468.3	469.0	469.6
152.5°	481.1	480.6	479.3	478.0	476.7	475.5	475.1	475.8	476.4	477.2	477.8
155°	491.4	490.9	489.9	488.8	487.9	486.9	486.7	487.5	488.2	489.0	489.7
157.5°	500.0	499.4	498.7	498.0	497.3	496.6	496.6	497.2	497.8	498.5	499.1
160°	505.2	504.6	504.1	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6
162.5°	509.8	509.2	508.7	508.3	507.8	507.5	507.5	508.0	508.5	509.0	509.5
165°	515.5	514.9	514.7	514.4	514.2	513.9	514.0	514.5	515.1	515.6	516.0
167.5°	520.3	519.7	519.5	519.2	519.0	518.8	518.9	519.4	520.0	520.4	520.9
170°	522.7	522.2	522.0	521.8	521.7	521.5	521.7	522.2	522.6	523.2	523.7
172.5°	524.6	524.0	523.8	523.6	523.4	523.3	523.4	524.0	524.5	525.0	525.5
175°	526.6	525.9	525.8	525.7	525.5	525.3	525.5	526.1	526.6	527.3	527.9
177.5°	526.9	526.4	526.4	526.3	526.2	526.1	526.4	526.8	527.3	527.8	528.2
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



TEST NUMBER: P331555-940

CATALOG NUMBER: S122DIW-S865D435U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1547.7	1550.0	1557.6	1565.1	1573.7	1576.0	1579.8	1576.5	1575.6	1584.6	1591.2
5°	1552.0	1562.6	1583.4	1602.3	1618.3	1629.5	1641.4	1646.1	1654.9	1667.4	1682.7
7.5°	1547.0	1567.7	1600.3	1627.9	1658.0	1679.5	1696.5	1710.9	1728.5	1752.0	1777.7
10°	1541.3	1569.1	1608.8	1642.5	1679.2	1707.0	1730.1	1752.6	1778.6	1811.2	1844.9
12.5°	1531.0	1564.0	1613.6	1653.4	1700.5	1727.9	1759.0	1807.5	1835.4	1880.8	1928.2
15°	1510.0	1546.7	1615.9	1665.0	1718.2	1770.3	1827.7	1873.9	1920.0	1946.7	2013.6
17.5°	1478.9	1532.8	1609.4	1666.7	1734.4	1816.4	1880.9	1933.1	1986.5	2029.6	2063.2
20°	1453.8	1512.3	1599.9	1668.6	1749.0	1837.2	1911.2	1964.4	2010.5	2046.7	2067.3
22.5°	1422.1	1495.8	1581.0	1661.4	1764.2	1851.4	1929.1	1971.0	2009.6	2027.2	2035.2
25°	1372.2	1460.9	1557.4	1655.6	1771.6	1863.9	1934.8	1960.2	1971.5	1954.4	1925.9
27.5°	1318.3	1417.2	1530.0	1644.4	1767.0	1855.7	1906.7	1902.6	1883.6	1828.1	1783.7
30°	1278.1	1387.0	1508.2	1633.1	1756.1	1842.5	1872.1	1842.5	1799.3	1737.2	1673.9
32.5°	1235.9	1348.6	1485.1	1616.9	1736.3	1812.2	1818.6	1767.7	1700.8	1630.2	1551.3
35°	1172.2	1294.1	1441.4	1581.0	1694.0	1742.0	1713.5	1623.6	1544.4	1447.9	1340.2
37.5°	1100.1	1234.7	1382.4	1528.3	1630.7	1643.2	1572.7	1478.0	1366.2	1252.9	1126.1
40°	1046.2	1188.7	1340.8	1488.1	1578.6	1565.6	1475.7	1371.5	1238.4	1099.9	982.2
42.5°	997.8	1140.4	1295.3	1439.8	1512.3	1476.6	1371.5	1243.8	1100.6	970.3	862.5
45°	914.2	1060.9	1219.5	1359.1	1400.5	1336.1	1197.0	1055.0	914.2	805.3	720.1
47.5°	832.9	978.0	1135.1	1257.8	1272.5	1185.7	1033.8	887.7	766.6	678.0	617.9
50°	773.4	918.9	1074.5	1184.0	1179.2	1074.5	918.3	779.3	678.1	606.5	566.2
52.5°	719.9	857.4	1006.8	1106.3	1081.3	967.1	818.0	694.6	611.4	555.4	518.9
55°	636.7	763.8	905.9	985.8	939.6	813.0	687.0	587.5	526.0	484.0	455.6
57.5°	554.0	673.3	794.9	844.1	793.1	676.2	571.1	499.0	452.7	421.6	403.1
60°	502.9	607.1	715.3	758.0	697.1	592.9	510.1	445.6	408.2	382.8	366.2
62.5°	451.8	545.1	647.2	670.4	614.7	526.6	453.3	399.7	369.0	346.3	330.7
65°	382.3	458.5	536.1	551.4	500.0	431.9	374.0	339.0	311.8	295.2	282.9
67.5°	313.4	374.8	429.7	442.1	397.0	349.8	307.9	277.5	259.0	245.3	234.8
70°	272.8	321.3	366.2	376.3	340.2	298.2	266.3	242.0	225.4	213.6	203.6
72.5°	229.7	270.2	307.6	314.3	284.8	252.8	226.5	207.4	192.8	185.2	175.6
75°	175.8	199.4	228.4	230.2	210.6	191.1	171.0	158.5	150.9	141.4	136.7
77.5°	124.0	142.6	159.2	162.4	150.8	137.5	126.3	116.5	109.9	105.6	101.2
80°	94.7	109.5	116.5	120.7	112.4	103.0	96.5	90.0	85.8	82.8	79.9
82.5°	67.7	76.8	83.5	86.6	82.1	76.4	69.9	66.3	63.0	60.5	59.6
85°	34.3	38.4	42.6	43.8	42.6	40.2	36.6	36.6	34.9	34.3	34.3
87.5°	12.1	14.2	14.4	16.0	15.2	15.3	15.4	15.2	14.8	14.4	14.0
90°	1.3	2.2	3.2	4.1	4.9	5.6	6.2	7.0	7.6	8.0	8.5
92.5°	7.6	7.5	7.4	7.4	7.5	7.8	8.2	8.5	8.8	9.1	9.3
95°	21.9	19.2	16.4	13.6	12.5	13.1	13.6	14.3	14.9	15.2	15.7
97.5°	41.3	33.4	25.5	17.7	14.4	15.8	17.1	18.5	19.9	20.2	20.6
100°	55.8	44.2	32.6	21.0	16.0	17.4	18.8	20.2	21.8	22.4	23.1
102.5°	85.2	82.7	80.3	77.8	70.5	58.5	46.5	34.4	22.3	23.2	24.1
105°	118.4	120.9	123.5	126.0	115.7	92.6	69.5	46.4	23.3	24.2	25.1
107.5°	150.2	152.2	154.3	156.3	143.5	115.7	88.0	60.3	32.5	31.6	30.7
110°	170.6	172.4	174.2	175.9	164.6	140.1	115.7	91.1	66.7	58.2	49.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.9	191.5	193.1	194.7	192.4	186.4	180.3	174.2	168.3	137.3	106.5
115°	220.6	222.0	223.5	224.9	226.7	228.8	231.0	233.0	235.1	195.9	156.8
117.5°	248.3	249.9	251.5	253.1	254.7	256.1	257.5	259.0	260.5	251.0	241.5
120°	268.0	269.3	270.6	271.9	273.3	274.8	276.3	277.9	279.4	280.4	281.4
122.5°	285.2	286.5	287.8	289.2	290.7	292.4	294.0	295.7	297.4	298.0	298.5
125°	310.9	312.1	313.2	314.2	315.6	317.3	318.9	320.5	322.1	322.6	323.2
127.5°	334.7	335.8	337.1	338.3	339.5	340.7	341.9	343.1	344.3	345.2	346.1
130°	349.7	351.1	352.4	353.7	354.9	355.9	356.8	357.8	358.6	359.5	360.5
132.5°	364.7	365.9	367.0	368.2	369.3	370.1	371.1	372.0	373.0	373.8	374.6
135°	384.8	386.1	387.4	388.9	389.9	390.7	391.5	392.2	393.0	393.8	394.7
137.5°	404.4	405.4	406.4	407.2	408.1	409.0	409.9	410.7	411.6	412.4	413.3
140°	417.2	417.9	418.6	419.3	420.1	421.1	422.0	422.8	423.8	424.5	425.3
142.5°	428.2	428.7	429.4	430.0	430.9	431.9	432.9	434.0	435.1	435.8	436.5
145°	444.7	444.6	444.5	444.4	445.1	446.6	448.0	449.4	450.8	451.5	452.1
147.5°	459.5	459.1	458.9	458.5	459.1	460.5	461.9	463.3	464.8	465.2	465.7
150°	469.0	468.3	467.8	467.2	467.5	469.0	470.3	471.6	473.0	473.5	474.0
152.5°	477.2	476.4	475.8	475.1	475.5	476.7	478.0	479.3	480.6	481.1	481.6
155°	489.0	488.2	487.5	486.7	486.9	487.9	488.8	489.9	490.9	491.4	492.0
157.5°	498.5	497.8	497.2	496.6	496.6	497.3	498.0	498.7	499.4	500.0	500.6
160°	504.1	503.6	503.1	502.6	502.6	503.1	503.6	504.1	504.6	505.2	505.6
162.5°	509.0	508.5	508.0	507.5	507.5	507.8	508.3	508.7	509.2	509.8	510.3
165°	515.6	515.1	514.5	514.0	513.9	514.2	514.4	514.7	514.9	515.5	516.1
167.5°	520.4	520.0	519.4	518.9	518.8	519.0	519.2	519.5	519.7	520.3	520.9
170°	523.2	522.6	522.2	521.7	521.5	521.7	521.8	522.0	522.2	522.7	523.3
172.5°	525.0	524.5	524.0	523.4	523.3	523.4	523.6	523.8	524.0	524.6	525.1
175°	527.3	526.6	526.1	525.5	525.3	525.5	525.7	525.8	525.9	526.6	527.2
177.5°	527.8	527.3	526.8	526.4	526.1	526.2	526.3	526.4	526.4	526.9	527.4
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1596.9	1603.5	1603.5	1604.5	1612.0	1611.1	1610.6
5°	1699.3	1709.4	1710.6	1721.3	1728.3	1726.0	1719.5
7.5°	1796.0	1814.7	1828.9	1836.8	1846.2	1852.0	1849.4
10°	1872.7	1899.9	1916.5	1927.7	1941.3	1951.4	1947.9
12.5°	1942.3	1974.7	1997.4	2016.7	2018.5	2031.4	2022.7
15°	2050.8	2085.1	2088.7	2102.8	2114.2	2112.9	2113.5
17.5°	2086.7	2097.7	2099.9	2100.2	2100.4	2096.2	2087.2
20°	2073.9	2069.7	2059.7	2052.0	2038.4	2036.6	2024.8
22.5°	2013.3	2000.2	1975.0	1958.3	1937.1	1931.5	1928.2
25°	1894.0	1865.0	1824.8	1786.3	1775.7	1755.0	1760.9
27.5°	1730.4	1685.2	1641.6	1610.3	1582.1	1551.0	1560.0
30°	1615.3	1564.4	1502.9	1455.5	1425.4	1395.8	1390.4
32.5°	1478.0	1403.5	1334.9	1293.2	1247.0	1228.2	1207.7
35°	1241.4	1168.6	1100.5	1042.0	1008.3	982.2	958.5
37.5°	1028.5	944.7	889.7	842.3	818.0	803.1	806.8
40°	896.4	823.0	782.8	746.7	724.2	713.5	716.0
42.5°	789.4	734.5	701.4	676.6	660.8	654.9	653.4
45°	668.0	637.2	610.0	595.8	588.2	581.7	577.5
47.5°	585.1	560.1	544.7	536.3	529.6	522.9	522.8
50°	535.5	518.9	508.3	499.4	494.1	489.4	493.5
52.5°	497.6	482.5	471.8	463.9	461.9	457.6	457.5
55°	441.4	429.5	421.9	414.7	411.3	408.8	405.9
57.5°	390.3	379.1	371.9	367.5	360.7	358.3	357.4
60°	353.8	344.9	337.9	331.9	329.0	324.2	324.2
62.5°	320.2	311.4	304.7	300.2	295.3	293.5	294.0
65°	271.6	264.5	258.0	253.2	252.1	248.5	249.7
67.5°	226.9	222.1	215.3	212.7	210.4	208.5	207.1
70°	197.1	192.3	188.8	185.2	183.4	183.4	183.4
72.5°	171.9	166.3	164.2	159.6	160.7	158.8	156.9
75°	133.1	129.6	127.8	126.0	123.1	123.1	123.1
77.5°	98.0	96.9	94.8	92.9	92.2	91.6	91.8
80°	75.7	75.2	73.9	73.9	72.8	72.2	71.0
82.5°	58.2	56.7	56.0	55.5	55.3	55.1	54.9
85°	33.2	31.9	31.9	32.5	31.4	31.4	31.9
87.5°	14.5	14.6	14.3	14.3	14.8	14.4	14.4
90°	8.9	9.3	9.6	9.8	10.0	10.2	10.3
92.5°	9.5	9.7	9.9	10.0	10.1	10.2	10.3
95°	16.1	16.6	16.8	16.7	16.6	16.5	16.4
97.5°	21.0	21.2	21.5	21.6	21.7	21.8	21.8
100°	23.7	24.4	24.9	25.1	25.2	25.3	25.5
102.5°	25.0	25.9	26.4	26.7	26.9	27.1	27.4
105°	26.0	27.0	27.6	27.9	28.3	28.6	29.0
107.5°	29.7	28.7	28.4	28.8	29.2	29.4	29.8
110°	41.3	32.8	28.7	29.1	29.4	29.8	30.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	75.5	44.7	29.3	29.6	29.9	30.1	30.4
115°	117.5	78.3	55.6	49.6	43.4	37.4	31.2
117.5°	232.0	222.5	207.8	187.7	167.6	147.7	127.6
120°	282.4	283.5	278.2	266.8	255.4	243.9	232.5
122.5°	299.2	299.8	299.0	296.8	294.5	292.3	290.1
125°	323.9	324.4	324.9	325.1	325.4	325.7	325.8
127.5°	346.9	347.8	348.2	348.3	348.3	348.4	348.4
130°	361.4	362.4	362.8	362.7	362.7	362.6	362.5
132.5°	375.3	376.1	376.5	376.4	376.3	376.3	376.2
135°	395.5	396.4	396.6	396.5	396.4	396.2	396.0
137.5°	414.1	414.9	415.2	414.9	414.6	414.4	414.0
140°	426.1	426.9	427.0	426.6	426.1	425.8	425.3
142.5°	437.2	437.9	438.0	437.6	437.2	436.8	436.3
145°	452.6	453.3	453.3	452.9	452.5	452.1	451.7
147.5°	466.1	466.5	466.5	466.2	465.8	465.5	465.1
150°	474.5	475.0	475.1	474.7	474.2	473.8	473.4
152.5°	482.1	482.7	482.6	482.1	481.5	480.9	480.4
155°	492.4	492.9	492.8	492.1	491.5	490.8	490.2
157.5°	501.1	501.8	501.7	501.1	500.3	499.7	499.1
160°	506.1	506.7	506.6	506.0	505.4	504.8	504.3
162.5°	511.0	511.5	511.4	510.7	510.0	509.3	508.5
165°	516.7	517.3	517.3	516.7	516.1	515.5	514.9
167.5°	521.5	522.1	522.0	521.2	520.5	519.7	519.0
170°	524.0	524.5	524.4	523.7	522.9	522.2	521.4
172.5°	525.8	526.4	526.3	525.5	524.8	524.0	523.3
175°	527.7	528.3	528.2	527.4	526.6	525.7	524.9
177.5°	527.8	528.3	528.2	527.6	527.0	526.4	525.8
180°	526.7	526.7	526.7	526.7	526.7	526.7	526.7

(END OF REPORT)